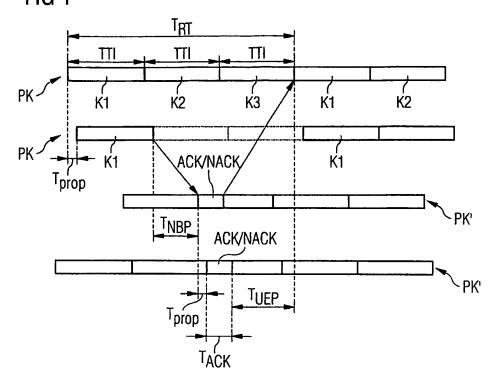
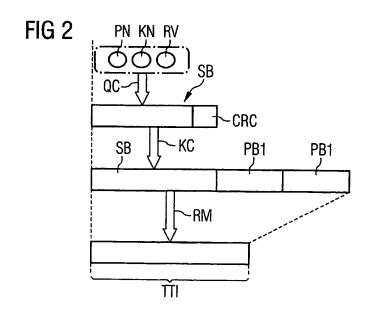
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FIG 1 Prior art





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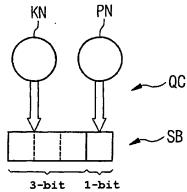
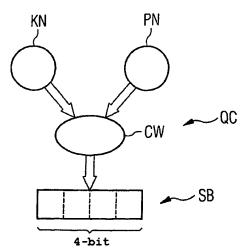


FIG 2B



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FIG 3 Prior art

M _S				b				
IVIS	_ 1	2	3	4	5	6	7	
1	2	4	8	16	32	64	128	
2 3 4 5 8	2 2	2	4	8	16	32	64	
3		1	2	4	8	16	32	
4		1	2	4	8	16	32	
2 5			1	2	4	8	16	
- 6			1	2 2 2	4	8	16	
7			1	2	4	8	16	
8 9			1	2	4	8	16	
				1	4 2 2	4	8	
10				1	2	4	8	

FIG 4

ΛΛ.				b			· · · · · · · · · · · · · · · · · · ·
Mj	1	2	3	4	5	6	7
1	2	4	8	16	32	64	128
2	1	2	4	8	16	32	64
3		1.33	2.67	5.33	10.67	21.33	42.67
4		1	2	4	8	16	32
≥ 5			1.6	3.2	6.4	12.8	25.6
6			1.33	2.67	5.33	10.67	21.33
7			1,14	2.29	4.57	9.14	18,29
8			1	2	4	8	16
9				1.78	3,56	7.11	14.22
10				1.6	3.2	6.4	12.8

FIG 5

N	1	2	3	4	5	6	7	8	9	10
Gain in %	0	0	33,3	0	60	33.3	14.3	0	77,8	60

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FIG 6

Type	b	Mean number of signaling options	HARQ channels	Distribution function	Examples
A1 A2 A3	4	2.67 2.67 2.67	6 6 6	identical homogenous inhomogenous	{2,2,2,2,2,2} {3,3,3,3,2,2} {4,3,3,2,2,2}, {4,4,2,2,2,2}, {5,3,2,2,2,2}, {6,2,2,2,2,2}
B1 B2 B3	5	5.33 5.33 5.33	6 6 6	identical homogenous inhomogenous	{5,5,5,5,5,5}, {4,4,4,4,4,4}, {3,3,3,3,3,3}, {2,2,2,2,2,2} {6,6,5,5,5,5} {8,8,8,3,3,2}, {8,8,8,4,2,2}, {7,7,7,7,2,2}, {6,6,6,6,4,4}, {10,10,6,2,2}
C1 C2 C3	6	10.67 10.67 10.67	6 6 6	identical homogenous inhomogenous	$\{p_k, p_k, p_k, p_k, p_k, p_k\}^{\text{sub}} p_k = \{2,3,,10\}$ $\{11,11,11,11,10,10\}$ $\{12,12,10,10,10,10\},\{12,12,12,12,8,8\},$ $\{12,12,12,12,8,8\}$
D1 D2 D3	4	3.2 3.2 3.2	5 5 5	identical homogenous inhomogenous	{3,3,3,3,3}, {2,2,2,2,2} {4,3,3,3,3} {4,4,4,2,2}, {5,4,3,2,2}, {5,5,2,2,2}, {6,4,2,2,2}, {6,3,3,2,2}
E1 E2 E3	5	6.4 6.4 6.4	5 5 5	identical homogenous inhomogenous	$\{p_k, p_k, p_k, p_k, p_k\}$ **** $p_k = \{2,3,,6\}$ $\{7,7,6,6,6\}$ $\{8,8,8,4,4\}, \{9,9,8,4,2\}, \{8,8,8,6,2\},$ $\{8,8,6,5,5\}, \{10,10,6,4,2\}$
F1 F2 F3	3	2.67 2.67 2.67	3 3 3	identical homoqenous inhomogenous	{2,2,2} {3,3,2} {4,2,2}
G1 G2 G3	4	5,33 5,33 5,33	3 3 3	identical homogenous inhomogenous	$\{p_k, p_k, p_k,\}^{\text{min}} p_k = \{2,3,4,5\} $ $\{6,5,5\}$ $\{6,6,4\}, \{7,6,3\}, \{7,7,2\}, \{7,5,4\}$
H1 H2 H3	5	10.67 10.67 10.67		identical homogenous inhomogenous	$\{p_k, p_k, p_k, \}^{\text{rin}} p_k, = \{2,,10\}$ $\{11,11,10\}$ $\{12,12,8\}, \{14,10,8\}, \{14,14,4\}, \{13,13,6\}$
11 12 13	3	1.33 1.33 1.33	6 6 6	identical homogenous inhomogenous	{1,1,1,1,1,1} {2,2,1,1,1,1} {3,1,1,1,1,1}

FIG 7 Prior art

b=6	Packet number	HARQ channels	Redundancy version
non-SHO	1	3	2
SH0	3	3	0

FIG 8 Prior art

b=6	Packet number	HARQ channels	Redundancy version
non-SHO	2	8	4
SH0	8	8	1

FIG 9

b=6	Packet number	HARQ channels	Redundancy version
non-SHO	2	6	5.33 (type B)
	10.67 (type C)	6	1
SH0	5.33 (type B)	6	2
	8	6	1.33 (type I)

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FIG 10

b=5	Packet number	HARQ channels	Redundancy version		
non-SHO	2	6	2.67 (type A)		
SH0	5.33 (type B)	6	1		

FIG 11

b=4	Packet number	HARQ channels	Redundancy version
non-SHO	2	6	1.33 (type I)
SH0	2.67 (type A)	6	1

FIG 12

		HARQ channel							
	1	2	3	4	5	6			
Time 1	2	2	1	1	1	1			
Time 2	1	1	2	2	1	1			
Time 3	1	1	1	1	2	2			
Time 4	2	1	1	2	1	1			
Time 5	1	2	1	1	2	1			
Time 6	1	1	2	1	1	2			

FIG 13

	Redundancy versions that can be signaled
Time 1	1
Time 2	2
Time 3	1.2
Time 4	1
Time 5	2
Time 6	1.2

FIG 14

	Packet number that can be signaled	Current packet number	No. of	transmis	No. of transmissions since last use		
	pį	aj	Packet no. 0	Packet no. 1	Packet no. 2	Packet no. 3	N _i
HARQ channel 1	4	1	1	//2///	1	1	3
HARQ channel 2	3	0		3	1	-	4
HARQ channel 3	3	2	1	4		-	5
HARQ channel 4	2	1	3		-	-	3
HARQ channel 5	2	0		1	-	-	1
HARQ channel 6	2	1	3	///5///	-	-	3